PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN EMERGENCY SIGNAL WITH OPTICOM DETECTION AT THE INTERSECTION OF MD 331 (MAIN STREET) AND MAPLE ROAD/MESSICK AVENUE IN THE TOWN OF PRESTON, CAROLINE COUNTY. MD 331 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EMERGENCY SIGNAL WILL FLASH YELLOW IN NORMAL OPERATION. WHEN ACTUATED BY AN EMERGENCY VEHICLE, THE SIGNAL WILL CHANGE TO A QUICK FLASHING YELLOW AND THEN TO A STEADY RED.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SYNDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SYNDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.32-01 (INTERSECTION FLAGGING

OPERATION)

STANDARD NO. MD-104.33-01 (SHOULDER WORK)

PROJECT CONTACTS

WIRING DIAGRAM

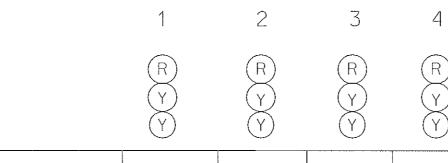
THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. BARRY CLOTHIER DISTRICT UTILITIES ENGINEER PHONE: (410)778-301

ASSISTANT DISTRICT ENGINEER - TRAFFIC

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. TERRY WRIGHT ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301)778-3061



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NORMAL OPERATION	FL/Y 8"	FL/Y 8"	FL/Y 8"	FL/Y 8"	
PRE-EMPTION WARNING	OFL/Y 8"	OFL/Y 8"	OFL/Y 8"	OFL/Y 8"	
WARNING CHANGE	12" Y	12" Y	12" Y	12" Y	<u> </u>
PRE-EMPTION	R	R	R	R	4 \ \
PRE-EMPTION CHANGE	R	R	R	R	
FLASHING OPERATION	FL/Y 12"	FL/Y 12"	FL/Y 12"	FL/Y 12"	★ /

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION			
9080	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER AND INTERSECTION MONITOR II WITH BATTERY BACK-UP FOR PHONE DROP HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET			
9089	43 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :			
		- 2 EACH W11-8(1) FIRE SIGNAL SIGN (36 IN. X 72 IN.) SINGLE FACED - MAST ARM MOUNT			
		- 1 EACH R1-1 STOP SIGN (30 IN. X 30 IN.) - GROUND MOUNTED			
9000	1 EACH	21 FOOT STEEL POLE WITH 38 FOOT MAST ARM AND ANCHOR BOLTS			

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	1 C.Y.	TEST PIT EXCAVATION
8001	3 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8012	1 EACH	FURNISH AND INSTALL 3M OPTICOM #721 DETECTOR EYE
8013	1 EACH	FURNISH AND INSTALL 3M OPTICOM #760 CARD RACK
8014	1 EACH	FURNISH AND INSTALL 3M OPTICOM DISCRIMINATOR MODULE
8015	3 EACH	FURNISH AND INSTALL OPTICOM EMITTER SYSTEM 500 SERIES, VISIBLE LIGHT FILTER AND HARDWIRE
8019	1 EACH.	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8027	40 L.F.	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8033	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	1 EACH.	FURNISH AND INSTALL GROUND ROD —3/4INCH X 10 FOOT LENGTH
8037	70 L.F.	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM DETECTOR CABLE
8043	25 L.F.	FURNISH AND INSTALL ELECTRICAL CANLE - 3 CONDUCTORE (NO. 14 AWG)
8044	50 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8045	110 L.F	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8047	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 8 AWG) - THHN/THWN
8048	20 L.F.	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8050	20 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4 IN. X 4 IN.
8052	7 S.F.	INSTALL GROUND MOUNTED SIGN
8053	36 S.F.	INSTALL OVERHEAD SIGN
8065	20 L.F.	FURNISH AND INSTALL 1 INCH RIGID ELECTRICAL GALVANIZED RISER
8066	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240 V, 1 PHASE 3 WIRE SYSTEM)
8069	1 EACH	FURNISH AND INSTALL PHOTOCELL
8074	1 EACH	INSTALL STEEL POLE AND SINGLE MAST ARM (ANY SIZE)
8084	8 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACED)
8085	4 EACH	FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACED)

PHASE CHART

NORMAL OPERATION	FL/Y 8"	FL/Y 8"	FL/Y 8"	FL/Y 8"	
PRE-EMPTION WARNING	OFL/Y 8"	QFL/Y 8"	QFL/Y 8"	OFL/Y 8"	
WARNING CHANGE	12" Y	12" Y	12" Y	12" Y	<u> </u>
PRE-EMPTION	R	R	R	R	4 \ \
PRE-EMPTION CHANGE	R	R	R	R	
FLASHING OPERATION	FL/Y 12"	FL/Y 12"	FL/Y 12"	FL/Y 12"	____

Whitman, Requardt and Associates, LLP 2315 Saint Paul Street Baltimore, Maryland 21218 (410) 235-3450

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET
MD 331 AND MAPLE AVE./MESSICK AVE.
(TOWN OF PRESTON)

DRAWN BY:	S. CHERNACK	F.A.P. NO.	
CHECKED BY	: N.LEARY	S.H.A.NO.	COSTIASTIC
SCALE:	NONE	COUNTY:	CAROLINE
DATE:	8/11/00	LOG MILE:	05033101.03

TS-4003 SHEET NO. T.I.M.S. NO. 2 OF 2 D-427

\$DGNNAME\$

STANDARD NO. MD-104.00 - 104.00-30

STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)

STANDARD NO. MD-104.35 (LANE SHIFT)

MR. RICHARD LINDSAY DISTRICT ENGINEER PHONE: (301) 778-3061 PHONE: (301)778-3061

A,B,E,F, G,H,J,K____ PE/PT #38131 A,B,E──≫ B,C,D,E───

WIRING KEY

A 7-CONDUCTOR ELECTRICAL B CABLE (NO. 14 A.W.G.)

5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

4-CONDUCTOR OPTICOM
DETECTOR CABLE (NO. 14 A.W.G.)

STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

1-CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG)

K 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) PE/PT - PROPOSED OVERHEAD ELECTRICAL AND TELEPHONE SERVICE

+ - $\frac{3}{4}$ IN. X 10 FT. GROUND ROD